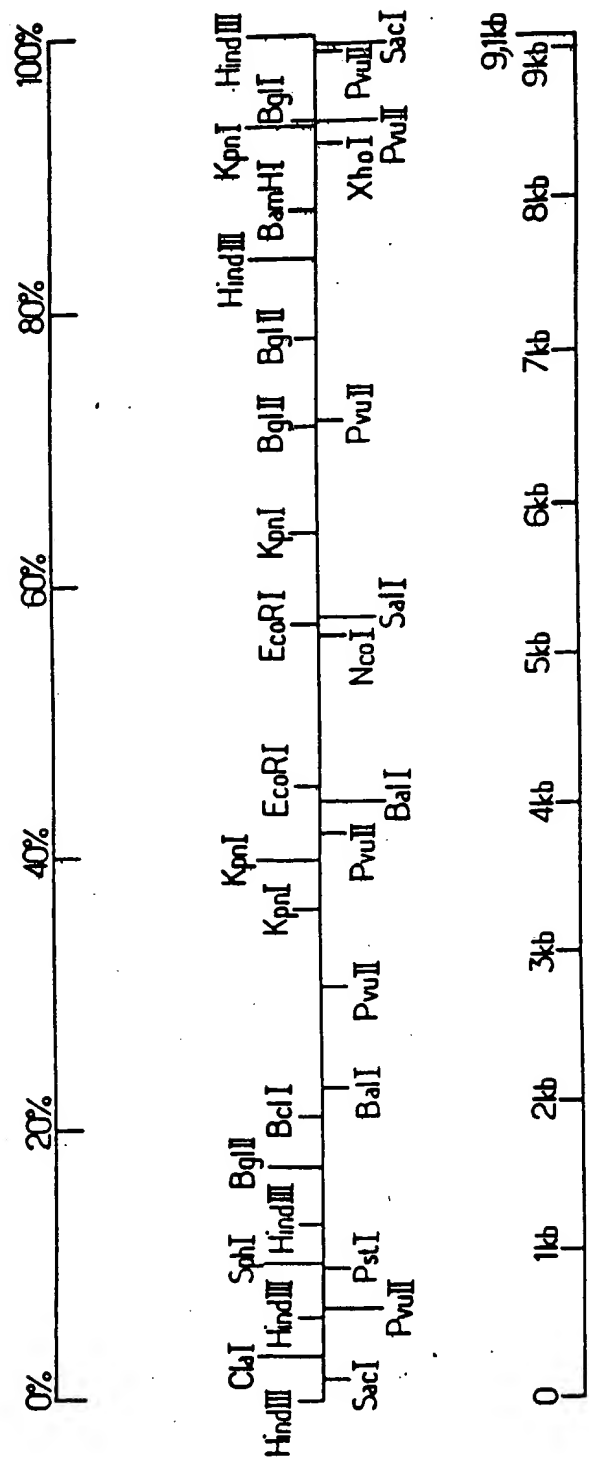


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FIG.1.



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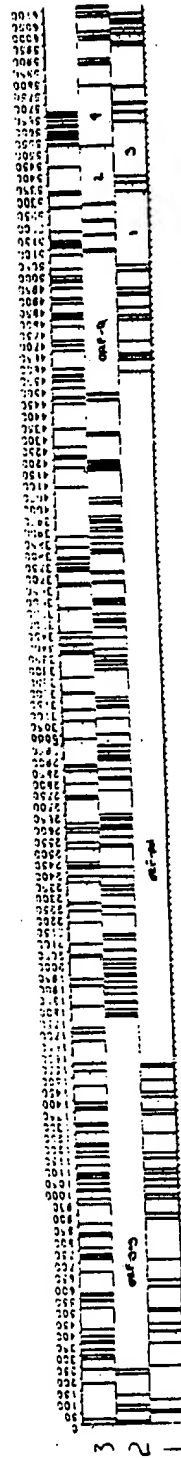


Fig. 2

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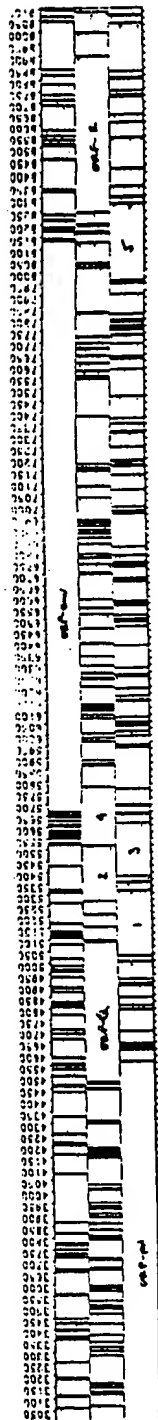


Fig. 3



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Fig. 5

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[illegible]

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[illegible]

I O T K E L O K O I T K I O N F R G F I T C I A E I H F C K O O S S L E R V G  
 Y K L M Y K M L O K E N F G F I T C I A E I H F C K O O S S L E R V G  
 T N O R I T M Y K S K S F C L L O C O R S T S L E R T S K A P L E R V G  
 A T A C A A C T A S C A A A C A A A T T C A A A A T T T C C G T T A T T A C C G A C A G A G A T C C A C T T T G G A A G A C C A C C A A G C T C T C G A A G C T C G A A G C  
 4330 4340 4350 4360 4370 4380 4390 4400 4410 4420 4430 4440

[illegible][illegible][illegible][illegible][illegible]





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Fig 13

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V V G E U E M E D V D P R L E P W K H P G S O P V  
T F E S M K W S D \* I L D \* S P G S I Q E V S L  
CAACAGAGGAGAGCAAGAAATGGAACCCAGTAGATCTCTAGACTAGAGCCCTGGAAGCCATCCAGGAAGTCAGCCTAA  
5290 5300 5310 5320 5330 5340 5350

P S L F H N K S L R H L L H Q E E A E T A T K T S  
D V C F T T K A L G I S Y G R K K R R O R R R P P  
K F V S O Q K P \* A S P M A G R S G D S D E D L  
CCAAGTTTGTTCACAACAAAAGCCTTAGGCATCTCTATGGCAGGAAGAAGCGGAGACAGCGACGAAGACCTCC  
5410 5420 5430 5440 5450 5460 5470

S T C N A T Y T N S N S S I S S S V N N S N S C V  
V H V M O P I U I A I A A L V V A I I I A I V V A  
Y M \* C N L Y K \* Q \* Q H \* \* \* O \* \* \* O \* L C  
AGTACATGTAATGCAACCTATACAAATAGCAATAGCAGCATTAGTAGTAGCAATAATAATAGCAATAGTTGTGTG  
5530 5540 5550 5560 5570 5580 5590

I U V N \* \* T N R K S R R O W Q \* E \* R R N I S  
I U R L I D R L I E R A E D S G N E S E G E I S A  
\* T G \* L I O \* \* K E Q K T V A M R V K E K Y U  
AATAGACAGGTTAATTGATAGACTAATAGAAAGAGCAGAAGACAGTGGCAATGAGAGTGAAGGAGAAATATCAGC  
5650 5660 5670 5680 5690 5700 5710

Y \* \* S V V L Q K N C G S Q S I M G Y L C G P K Q  
I Q D L \* C Y R K I V G H S L L W G T C V E G S N  
L M I C' S A T E K L W V T V Y Y G V P V W K E A  
TATTGATGATCTGTAGTGGTACAGAAAATTGGGTACAGTCTATTATGGGTACCTGTGTGGAAGGAAGCAA  
5770 5780 5790 5800 5810 5820 5830

K Y I M F G P H M P V Y P U T P T H K K \* Y \* \*  
G T \* C L G H T C L C T H R P Q P T R S S \* I G K C  
V H N V W A T H A C V P T O P N P Q E V V L V V  
AGGTACATAATGTTTGGGCCACACATGCCTGTGTACCCACAGACCCCAACCCACAAGAAGTAGTATTGGTAAATG  
5870 5900 5910 5920 5930 5940 5950

C M R I \* S V Y G I K A \* S H V \* N \* P H S V L V  
A \* G Y N U F M G S K P K A M C K I N P T L C \* F  
H E D I I S L M D Q S L K P C V K L T P L C V S I  
TGCATGAGGATATAATCAGTTTATGGGATCAAAGCCTAAAGCCATGTCTAAAAATTAACCCCACTCTGTGTTAGTT  
6010 6020 6030 6040 6050 6060 6070

I P I V V A G K \* \* W R K E R \* K T A L S I S A Q  
Y Q \* \* \* G N D D G E R D K K I L F O Y Q H K  
T N S S S G E M M E K G E I K N C S F N I S T  
ATACCAATAGTACTAGCGGGGAAATGATGATGGAGAAAGCAGAGATAAAAAAGTGGTCTTTCAATATCAGCACAA  
6130 6140 6150 6160 6170 6180 6190

L I \* Y Q \* I M I L P A I R \* D V V T P O S L H R  
\* Y N T H R \* \* Y Y O L Y V D K L \* H L S H Y T G  
U I I P I D N D T T S Y T L T S C N T S V I T O  
TTGATATAATACCAATAGATAATGATACTACCAGCTATACGTTGACAAAGTTGTAACACCTCAGTCATTACACAGG  
6250 6260 6270 6280 6290 6300 6310

P R L V L V F \* N V I I R S M E O D H V O M S A

Fig 14

J G S D P K T A C T T C Y C K K C C F H C  
Q E V S L K L L V P L A I V K S V A F I A  
AGGAAGTCAGCCTAAACTGCTTGACCACTTGCTATTGTAAAAAGTGTTCCTTCATTG  
5350 5360 5370 5380 5390 5400

A T K T S S R O S D S S S F S I K A V S  
R R R P P Q G S G T H C V S L S K O \* V  
S D E D L L K A V R L I K F L Y O S S K \*  
AGCGACGAAGACCTCCTCAAGGCAGTCAGACTCATCAAGTTTCTCTATCAAAGCAGTAAGT  
5470 5480 5490 5500 5510 5520

S N S C V V H S N H R I \* E N I K T K K  
A I V V W S I V I I E Y R K I L R O R K  
\* D \* L C G P \* \* S \* N I G K Y \* D K E K  
AGCAATAGTTGTGTGGTCCATAGTAATCATAGAATATAGGAAAATATTAAGACAAAGAAA  
5590 5600 5610 5620 5630 5640

R R N I S T C G D G G G N G A P C S L G  
G E I S A L V E M G V E M G H H A P W D  
K E K Y Q H L W R W G W K W G T H L L G I  
AGGAGAAATATCAGCACTTGTGGAGATGGGGGTGGAAATGGGGCACCATGCTCCTTGGGA  
5710 5720 5730 5740 5750 5760

C G F K Q P P L Y F V H Q M L K H M I Q  
V E G S N H H S I L C I Q C \* S I \* Y R  
V W K E A T T T L F C A S D A K A Y D T E  
TGTGGAAGGAAGCAACCACCACTCTATTTTGTGCATCAGATGCTAAAGCATATCATAAG  
5830 5840 5850 5860 5870 5880

\* Y \* \* M \* Q K I L T C G K M T W \* N R  
S I G K C D R K F \* H V E K \* H G R T D  
V V L V N V T E N F N M \* K N O M V E O M  
TAGTATTGGTAAATGTGACAGAAATTTTAACATGTGCAAAATGACATGGTAGAACAGA  
5950 5960 5970 5980 5990 6000

H S V L V \* S A L T W G \* L L I P I V V  
T L C \* F K V H \* F G E C Y \* Y O \* \* \*  
\* L C V S L K C T D L G N A T N T N S S N  
CACTCTGTGTAGTTTAAAGTGCACATGATTTGGGCAATGCTACTAATACCAATAGTAGTA  
6070 6090 6090 6100 6110 6120

S I S A Q A \* E V R C P K N M H F F I N  
Q Y Q H K H K R \* G A E R I C I F L \* T  
F N I S T S I R G K V Q K E Y A F F Y K L  
TCAATATCAGCACAAAGCATAAGAGGTAAGGTGCAGAAAGAAATATGCATTTTTTATAAAC  
6170 6200 6210 6220 6230 6240

U S L H R P V Q R Y P L S Q F P Y I I V  
S H Y T G L S K G I L \* A N S H T L L C  
S V I T Q A C P K V S F E P I P I H Y C A  
CAGTCATTACACAGGCTGTCCAAAGGTATCCTTTGAGCCAATTCACATACATTATTGTG  
6310 6320 6330 6340 6350 6360

V Q M S A Q Y N V H \* L G G \* Y Q L N

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Fig 15

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P G W F C D S N Y \* | \* \* J V U W N R T M Y K C Q  
P A G F A I L K C N N K T F N G T G P C T N V S  
CCCCGGCTGGTTTTGCGATTCTAAAATGTAATAATAAGACGTTCAATGGAACAGGACCATGTACAAATGTCAGC  
6370 6380 6390 6400 6410 6420 6430

C C \* H A V \* O K K R \* \* L D L P I S O T N L K P  
A V E W O S S R R R G S N \* I C Q F H R Q C \* N  
L L N G S L A E E E V V I R S A N F T D N A K T  
TGCTGTTGAATGGCACTCTAGCAGAAGAAGAGGTAGTAATTAGATCTGCCAATTTCAAGACAAATGCTAAAACC  
6490 6500 6510 6520 6530 6540 6550

P T T I G E K V S V S R G D U G E H L L O \* E K \*  
U O J Y K K K Y P Y P E G T R E S I C Y N R K N  
N N N Y R K S I R I O R G P G R A F V T I G K I  
CCAACAACAATACAAGAAAAAGTATCCGTATCCAGAGGGGACCAGGAGCATTGTGTTACAATAGGAAAAATA  
6610 6620 6630 6640 6650 6660 6670

M P L \* N R \* L A N \* E N N L E I I K O \* S L S N  
C H F K T D S \* Q I K R T I W K \* N N N L \* A  
A T L K Q I A S K L R E O F G N N K T I I F K Q  
ATGCCACTTTAAACAGATAGCTAGCAAATTAAGAGAACAATTTGGAATAATAAAACAATAATCTTTAAGCAA  
6730 6740 6750 6760 6770 6780 6790

I G N F S T V I O H N C L I V L G L I V L G V L K  
W G I F L L \* F N T T V \* \* Y L V \* \* Y L E Y \*  
G E F F Y C N S T Q L F N S T W F N S T W S T E  
GAGGGGAATTTTCTACTGTAATTCACACAACCTGTTAATAGTACTTGGTTAATAGTACTTGGAGTACTGAA  
6850 6860 6870 6880 6890 6900 6910

E \* N N L \* T C G R K \* E K Q C M P L P S A O K L  
N K T I Y K M V A G S R K S N V C P S H O R T N \*  
I K Q F I N M W O E V G K A M Y A P P I S G Q I  
GAATAAACAAATTTATAAACATGTGGCAGGAAGTAGGAAAAGCAATGTATGCCCTCCCATCAGCGGACAAATT  
6970 6980 6990 7000 7010 7020 7030

V I T T M G P R S S D L E E E I \* G T I G E V N Y  
\* \* O O W V R Q L O T W R R R Y E G O L E K \* I I  
N N N N G S E I F R P G G G D M R D N W R S E L  
GTAATAACAACAATGGGTCGAGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT  
7090 7100 7110 7120 7130 7140 7150

P R Q R E E W C R E K K E Q W E \* E L C S L G S W  
O G K E K S G A E R K K S S G N R S F V P W L G  
K A K R R V V O R E K R A V G I G A L F L G F L  
CCAAGCCAAAGAGAAGAGTGGTGCAGAGAGAAAAAGAGCAGTCCGAATAGGAGCTTTGTTCTTGGTTCTTGG  
7210 7220 7230 7240 7250 7260 7270

Y R P O N Y C L V \* C S S R T I C \* G L L R R N S  
T G O T I I V W Y S A A A E Q F A E G Y \* G A T A  
O A R O L L S G I V O O Q N N L L R A I E A O O  
TACAGCCAGACAATTTATTGCTGTTAGTGCAGCAGACAACAATTTGCTGAGGGCTATTGAGGGCGAACAGC  
7330 7340 7350 7360 7370 7380 7390

E S A L W K O T \* R I N S S W G F G V A L E N S F

Fig. 16

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N R T M Y K C Q H S T M Y T W N \* A S S I N S T  
 T G P C T N V S T V Q C T M G I R \* V V S T U L  
 AACAGGACCATGTACAATGTCAGGCACAGTACAATGTACACATGGAATTAGGCCAGTAGTATCAACTCAAC  
 6420 6430 6440 6450 6460 6470 6480

P I S O T M L K P \* Y S \* T V L \* K L I V U D  
 D F M R O C \* N H N S T A E P I C R N \* L Y K T  
 N F T D N A K T I I V Q L N O S V E I N C T R P  
 CAATTTACAGACAATGCTAAAACATAATAGTACAGCTGAACCAATCTGTAGAAATTAATTTGTACAAGAC  
 6540 6550 6560 6570 6580 6590 6600

F H L L Q \* E K \* E I \* D K H I V T L V F O N G  
 S I C Y N R K N R K Y E T S T L \* H \* \* S K M E  
 A F V T I G K I G V M R Q A M C N I S R A K W N  
 AGCATTGTGTACAATAGGAAAAATAGGAAATATGAGACAAGCACATTGTAACATTAGTAGAGCAAAATGGA  
 6660 6670 6680 6690 6700 6710 6720

L I K Q \* S L S N P Q E G T O K L \* R T V L I V  
 \* \* N N V L \* A I L R R G G P R N C N A O F \* L W  
 N K T I I F K Q S S G G Q P E I V T H S F N C G  
 TAATAAAACAATAATCTTTAAGCAATCCTCAGGAGGGGACCCAGAAATTGTAAACGCACAGTTTAAATTGTG  
 6780 6790 6800 6810 6820 6830 6840

D L I V L G V L K G Q I T L K E V T O S H S H A  
 V \* \* Y L E Y \* R V K \* H \* R K \* H V H T P M C  
 F N S T W S T E G S N N T E G S D T I T L P C R  
 TTTAATAGTACTGGAGTACTGAAGGGTCAATAACACTGAAGGAAGTGACACAATCACACTCCCATGCA  
 6900 6910 6920 6930 6940 6950 6960

V P L P S A D K L D V H O I L G G C Y \* O E M V  
 C P S H O R T N \* M F I K Y Y R A A I N K R W W  
 A P P I S G Q I R C S S N I T G L L L T R D G G  
 TGCCCTCCCATCAGCGGACAAATTAGATGTCATCAAAATATTACAGGCTGCTATTAACAAGAGATGGTG  
 7020 7030 7040 7050 7060 7070 7080

G T I G E V N Y I N I K \* \* K L N H \* E \* H P  
 E G O L E K \* I I \* I \* S S K N \* T I R S S T H  
 R D N W R S E L Y K Y K V V K I E P L G V A P T  
 CAGGGACAATTGGAGAAGTGAATTATATAATATAAAGTACTAAAATTGAACCATAGGAGTAGCACCCA  
 7140 7150 7160 7170 7180 7190 7200

E L C S L G S W E O D E A L \* A H G O \* R \* R  
 R S F V P W V L G S S R K H Y G R T V N D A D G  
 G A L F L G F L G A A G S T M G A R S M T L T V  
 AGGAGCTTTGTTCTTGGGTTCTTGGGACCAGCAAGCACTATGGCGGCACGGTCAATGACGCTGACGG  
 7260 7270 7280 7290 7300 7310 7320

\* G L L R R N S I C C N S O S G A S S S S R O  
 A E G Y \* G A T A S V A T H S L G H O A A P G K  
 L R A I E A O O H L L O L T V W G I K O L O A R  
 CTGAGGGCTATTGAGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCAGGCA  
 7380 7390 7400 7410 7420 7430 7440

G V A L E N S F A P L L C L G \* L V G V I N L 38



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W N R F G I T \* P G H S G T E K L T I T Q A \* Y  
G T O L E \* H D L W G V G D R N \* O L H K L N T  
E O I W N N M T L W M E M D R E I N N Y T S L I H  
T G G A A C A G A T T T G G A A T A A C A T G A C C T G G A T G G G A C A G A G A A A T T A A C A A T T A C A C A A G C T T A A T A C A  
7570 7580 7590 7600 7610 7620 7630

L L Y F L \* \* I E L G R D I H H Y R F R P T S Q F  
C C T F S Y S E \* S \* A G G I F T I I V S D P P P N  
A V L S I V / N R V R O G Y S P L S F O T H L P T  
T T G C T G T A C T T T C T A T A G T G A A T A G A G T T A G G C A G G G A T A T T C A C C A T T A T C G T T T C A G A C C C A C C T C C C A C C  
7810 7820 7830 7840 7850 7860 7870

R E T E T D P F D \* \* T D P \* H L S G T I C G A L  
E R U P Q I H S I S E R I L S T Y L W G R S A E P  
R D R D R S I R L V N G S L A L I W D D L R S L  
AGAGAGACAGAGACAGATCCATTGCGATTGAACCGATCTTACGACTTATCTGGGACGATCTCGGGACCTT  
7930 7940 7950 7960 7970 7980 7990

T R I V E L L G E R G H E A L K Y W W N L L Q Y  
R G L H N F H D A G G G K P S N I G E I S P Y S I L  
E D C G T S G T O G V G S P Q I L V E S P T V L  
ACGAGGATTGTGGAACCTTCTGGGACCCAGGGGGTGGGAAGCCCTCAAATATTGGTGAATCTCCTACAGTATT  
8050 8060 8070 8080 8090 8100 8110

A I A V A E G T D R V I E V V Q G A C R A I R M I  
 P \* D \* L R G Q I G L \* K \* Y \* K E L V E L F A T  
 H S S S \* G D R \* G Y R S S T R S L \* S Y S P H  
 GCCATAGCCAGTAGCTGAGGGGACAGATAGGGTTATAGAACTAGTACAGGAGCTTGTAGAGCTATTGCCACAT  
 8170 8180 8190 8200 8210 8220 8230

G W Q V V K K \* C G W H A Y C K G K N E T S \* A S  
 G V A K S G K S S V V G H P T V R E M R R A E P Q  
 G Y A S G O K V V L D G L L \* G K E \* D E L S Q  
 GGGTGGCAAGTGGTCAAAAAGTAGTGTGGATGGCTACTGTAAGGGAAGCAATGAGACGAGCTGAGCCAG  
 8290 8300 8310 8320 8330 8340 8350

S N H K \* O Y S S Y O C C L C L A R S T R G G G  
A I T S S A I T A T N A A C A W L F A H O E E E  
U S O V A I U O L P N L L V P G \* K H K R B R B  
AGCAATCACAAGTAGCAATACAGCAGCTACCAATGCTGCTTGTGGCTTGAAGCACAGAGGAGGCAGGAGG  
8410            8420            8430            8440            8450            8460            8470

U G S C R S P L F K R K G G T G

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#18

A K T H L H M C C A L E C \* L E \* \* I S  
G K L P I C T T A V P W N A S W S N K L  
TGGAAAACCTATTTCACCACTGCTGTGCCTTGGAAATGCTAGTTGGAGTAATAAATCTC  
7510 7520 7530 7540 7550 7560

O A \* Y I P \* L K N R K T S K K R M N K  
K L N T F L N \* R I A K P A R K E \* T R  
S L I H S L I E E S O V O Q E K N E Q E  
AAGCTTAATACATTCCTTAATTGAAGAATCGCAAAACCACCAAGAAAAGAAATGAACAAG  
7630 7640 7650 7660 7670 7680

C G I \* K Y S \* \* \* \* E A W \* V \* E \* F  
V V Y K N I H N D S R R L G R F K N S F  
W Y I K I F I M I V G G L V G L / R / I V F  
GTGGTATATAAAAAATATTCATAATGATAGTAGGAGCCTTGGTAGGTTTAAGAATAGTTT  
7750 7760 7770 7780 7790 7800

P T S O P R G D P T G P K E \* K K K V E  
P P P N P E G T R O A R R N R R R R W R  
H L P T P R G P D R P E G I E E E G G E  
CCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAGGTGGAG  
7870 7880 7890 7900 7910 7920

I C G A L C L F S Y H R L R D L L L I V  
S A E P C A S S A T T A \* E T Y S \* L \*  
L R S L V P L Q L P P L E R L T L D C N  
TCTGCGGAGCCTTGTGCCTCTTCAGCTACCACCGCTTGAGAGACTTACTCTTGATTGTA  
7990 8000 8010 8020 8030 8040

L L O Y W S O E L K N S A V S L L N A T  
S Y S I G V R N \* R I V L L A C S M P O  
P T V L E S G T K E \* C C \* L A O C H S  
TCTACAGTATTGGAGTCAGGAATAAGAATAGTGCTGTTAGCTTGTCAATGCCACA  
8110 8120 8130 8140 8150 8160

A I R H I P R R I R O G L E R I L L \* D  
L F A T Y L E E \* D R A W K G F C Y K M  
Y S P H T \* K N K T G L G K D F A I R W  
CTATTGCCACATACCTAGAAGAAATAAGACAGGGCTTGGAAAGGATTTTGCTATAAGAT  
8230 8240 8250 8260 8270 8280

T S \* A S S R W G G S S I S R P G K T W  
R A E P A A D G V G A A S R D L E K H G  
E L S O O \* G W E O H L E T W K N M E  
AGAGCTGAGCCAGCAGCAGATGGGGTGGGAGCAGCATCTCGAGACCTGGAAAAACATGG  
8350 8360 8370 8380 8390 8400

G C G C G F S S H T S G T F K T N D L  
E E E E V G F P V T P C V P L R P M T Y  
R R R R W Y F S H L R Y L \* D O \* L T  
AGGAGCAGGAGGGGGTTTCCAGTCACACCTCAGGTACCTTAAGACCAATCACTTA  
8470 8480 8490 8500 8510 8520

L P T K T P \* S V D L P H T R L L  
15/15 B/L

Fig 19

10 20 30 40 50 60  
AAGCTTGCCCT TGAGTGCTTC AAGTAGTGTC TCCCCGTCTG TTGTGTGACT CTGCTAACTA

70 80 90 100 110 120  
GAGATCCCTC AGACCCTTTT AGTCAGTGTC GAAAACTCTT AGCAGTGCCG CCCGAACAGG

130 140 150 160 170 180  
GACTTGAAAG CGAAAGGGAA ACCAGAGGAG CTCTCTCGAC GCAGGACTCG GCTTGCTGAA

190 200 210 220 230 240  
GCGCGCACGG CAAGAGGGCA GGGGAGGGCA CTGGTGAGTA CGCCAAAAAT TTTGACTAGC

250 260 270 280 290 300  
GGAGGCTAGA AGGAGAGAGA TGGGTGCCAG AGCGTCAGTA TTAAGCGGGG GAGAATTAGA

310 320 330 340 350 360  
TCGATCGGAA AAAATTCGGT TAAGGCCAGG GGGAAAGAAA AAATATAAAT TAAAAATAT

370 380 390 400 410 420  
AGTATGGGCA AGCAGGGAGC TAGAACGATT CGCTGTTAAT CCTGGCCTGT TAGAAACAIC

430 440 450 460 470 480  
AGAAGGCTGT AGACAAATAC TGGGACAGCT ACAACCATCC CTCAGACAG GATCAGAAGA

490 500 510 520 530 540  
ACTTAGATCA TTATATAATA CAGTAGCAAC CCTCTATTGT GTGCATCAAA GGATAGAGAT

550 560 570 580 590 600  
AAAAGACACC AAGGAAGCTT TAGACAAGAT AGAGGAAGAG CAAAACAAAA GTAAGAAAAA

610 620 630 640 650 660  
AGCACAGCAA GCAGCAGCTG ACACAGGACA CAGCAGCCAG GTCAGCCAAA ATTACCCTAT

670 680 690 700 710 720  
ACTGCAGAAC ATCCAGGGGC AAATGGTACA TCAGGCCATA TCACCTAGAA CTTTAAATGC

730 740 750 760 770 780  
ATGGGTAAAA GTAGTAGAAG AGAAGGCTTT CAGCCCAGAA GTGATACCCA TGTTTTCAGC

790 800 810 820 830 840  
ATTATCAGAA GGAGCCACCC CACAAGATTT AAACACCATG CTAAACACAG TGGGGGGACA

850 860 870 880 890 900  
TCAAGCAGCC ATGCAAAATGT TAAAAGAGAC CATCAATGAG GAAGCTGCAG AATGGGATAG

910 920 930 940 950 960  
AGTGCATCCA GTGCATGCAG GGCCTATTGC ACCAGGCCAG ATGAGAGAAC CAAGGGGAAG

970 980 990 1000 1010 1020  
TGACATAGCA GGAACACTA GTACCCCTTCA GGAACAAATA GGATGGATGA CAAATAATCC

1030 1040 1050 1060 1070 1080  
ACCTATCCCA GTAGGAGAAA TTTATAAAG ATGGATAATC CTGGGATTAA ATAAAATAGT

1090 1100 1110 1120 1130 1140

Fig 20

AAATAATGTAT AGCCCTACCA GCATTCTGGA CATAAGAÇAA GGACCAAAAG AACCCTTTAG  
 1150 1160 1170 1180 1190 1200  
 AGACTATGTA GACCGGTTCT ATAAAACCTCT AAGAGCCGAG CAAGCTTCAC AGGAGGTAAA  
 1210 1220 1230 1240 1250 1260  
 AAATTGGATG ACAGAAACCT TGTGGTCCAA AAATGCCAAC CCAGATTGTA AGACTATTTT  
 1270 1280 1290 1300 1310 1320  
 AAAAGCATTG GGACCAGCAG CTACACTAGA AGAAATGATG ACAGCATGTC AGGGAGTGGG  
 1330 1340 1350 1360 1370 1380  
 AGGACCCGGC CATAAGGCAA GAGTTTGGC TGAAGCAATG AGCCAAGTAA ÇAAATTCAGC  
 1390 1400 1410 1420 1430 1440  
 TACCATAATG ATGCAAAGAG GCAATTTTAG GAACCAAAGA AAGATTGTTA AGTGTITCAA  
 1450 1460 1470 1480 1490 1500  
 TTGTGGCAAA GAAAGGCACA TAGCCAGAAA TTGCAGGGCC CCTAGGAAAA AGGGCTGTTG  
 1510 1520 1530 1540 1550 1560  
 GAAATGTGGA AAGGAAGGAC ACCAAATGAA AGATTGTACT GAGAGACAGG CTAATTTTTT  
 1570 1580 1590 1600 1610 1620  
 AGGGAAGATC TGGCCTTCCT ACAAGGGAAG GCCAGGGAAT TTTCTTCAGA GCAGACCAGA  
 1630 1640 1650 1660 1670 1680  
 GCCAACAGCC CCACCAGAAG AGAGCTTCAG GTCTGGGGTA GAGACAACAA CTCCCTCTCA  
 1690 1700 1710 1720 1730 1740  
 GAAGCAGGAG CCGATAGACA AGGAACGTGA TCCTTTAACT TCCCTCAGAT CACTCTTTGG  
 1750 1760 1770 1780 1790 1800  
 CAACGACCCC TCGTCACAAT AAAGATAGGG GGGCAACTAA AGGAAGCTCT ATTAGATACA  
 1810 1820 1830 1840 1850 1860  
 GGAGCAGATG ATACAGTATT AGAAGAAATG AGTTTGCCAG GAAGATGGAA ACCAAAAATG  
 1870 1880 1890 1900 1910 1920  
 ATAGGGGGAA TTGGAGCTTT TATCAAAGTA AGACAGTATG ATCAGATACT CATAGAAATC  
 1930 1940 1950 1960 1970 1980  
 TGTGGACATA AAGCTATAGG TACAGTATTA GTAGGACCTA CACCTGTCAA CATAATTGGA  
 1990 2000 2010 2020 2030 2040  
 AGAAATCTGT TGA CTCAGAT TGGTTGCACT TTAATTTTC CCATTAGTCC TATTGAAACT  
 2050 2060 2070 2080 2090 2100  
 GTACCAGTAA AATTAAAGCC AGGAATGGAT GGCCCAAAAG TTAAACAATG GCCATTGACA  
 2110 2120 2130 2140 2150 2160  
 GAAGAAAAAA TAAAAGCATT AGTAGAAATT TGTACAGAAA TGGAAAAGGA AGGGAAAATT  
 2170 2180 2190 2200 2210 2220  
 TCAAAAATTG GGCCTGAAAA TCCATACAAAT ACTCCAGTAT TTGCCATAAA GAAAAAAGAC  
 2230 2240 2250 2260 2270 2280  
 AGTACTAAAT GGAGAAAATT AGTAGATTTC AGAGAACTTA ATAAGAGAAC TCAAGACTTC  
 2290 2300 2310 2320 2330 2340  
 TGGGAAGTTC AATTAGGAAT ACCACATCCC GCAGGGTTAA AAAAGAAAAA ATCAGTAACA  
 2350 2360 2370 2380 2390 2400

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Fig 21

GTCCTGGATG TGGGTGATGC ATATTTTTC A GTTCCCTTAG ATGAAGACTT CAGGAAGTAT  
 2410 2420 2430 2440 2450 2460  
 ACTGCATTTA CCATACCTAG TATAAACAAT GAGACAECAG GCATTAGATA TCAGTACAAT  
 2470 2480 2490 2500 2510 2520  
 GTGCTTCCAC AGGGATGGAA AGGATCACCA GCAATATTCC AAAGTAGCAT GACAAAAATC  
 2530 2540 2550 2560 2570 2580  
 TTAGAGCCTT TTAGAAAACA AAATCCAGAC ATAGTTATCT ATCAATACAT GGATGATTG  
 2590 2600 2610 2620 2630 2640  
 TATGTAGGAT CTGACTTAGA AATAGGGCAG CATAGAACAA AAATAGAGGA GCTGAGACAA  
 2650 2660 2670 2680 2690 2700  
 CATCTGTTGA GGTGGGGACT TACCACACCA GACAAAAAAG ATCAGAAAGA ACCTCCATTG  
 2710 2720 2730 2740 2750 2760  
 CTTTGGATGG GTTATGAACT CCATCCTGAT AAATGGACAG TACAGCCTAT AGTGCTGCCA  
 2770 2780 2790 2800 2810 2820  
 GAAAAAGACA GCTGGACTGT CAATGACATA CAGAAGTTAG TGGGAAAATT GAATTGGGCA  
 2830 2840 2850 2860 2870 2880  
 AGTCAGATTT ACCCAGGGAT TAAAGTAAGG CAATTATGTA AACTCCTTAG AGGAACCAAA  
 2890 2900 2910 2920 2930 2940  
 GCACTAACAG AAGTAATACC ACTAACAGAA GAAGCAGAGC TAGAACTGGC AGAAAACAGA  
 2950 2960 2970 2980 2990 3000  
 GAGATTCTAA AAGAACCAGT ACATGGAGTG TATTATGACC CATCAAAAGA CTTAATAGCA  
 3010 3020 3030 3040 3050 3060  
 GAAATACAGA AGCAGGGGCA AGGCCAATGG ACATATCAAA TTTATCAAGA GCCATTTAAA  
 3070 3080 3090 3100 3110 3120  
 AATCTGAAAA CAGGAAAAATA TGCAAGAACG AGGGGTGCCC AACTAATGA TGTAACAACA  
 3130 3140 3150 3160 3170 3180  
 TTAACAGAGG CAGTGCAAAA AATAACCACA GAAAGCATAG TAATATGGGG AAAGACTCCT  
 3190 3200 3210 3220 3230 3240  
 AAATTTAAAC TACCCATACA AAAGGAAACA TGGGAAACAT GGTGGACAGA GTATTGGCAA  
 3250 3260 3270 3280 3290 3300  
 GCCACCTGGA TTCCTGAGTG GGAGTTTGTG AATACCCCTC CTTTAGTGAA ATTATGCTAC  
 3310 3320 3330 3340 3350 3360  
 CAGTTAGAGA AAGAACCCAT AGTAGGAGCA GAAACGTTCT ATGTAGATGG GCCAGCTAGC  
 3370 3380 3390 3400 3410 3420  
 AGGGAGACTA AATTAGGAAA AGCAGGATAT GTTACTAATA GAGGAAGACA AAAAGTTGTC  
 3430 3440 3450 3460 3470 3480  
 ACCCTAAGT ACACAACAAA TCAGAAGACT GAGTTACAAG CAATTCATCT AGCTTTGCAG  
 3490 3500 3510 3520 3530 3540  
 GATTGGGGAT TAGAAGTAAA TATAGTAACA GACTCACAAT ATGCATTAGG AATCATTCAA  
 3550 3560 3570 3580 3590 3600  
 GCACAACCAG ATAAAAGTGA ATCAGAGTTA GTCAATCAAA TAATAGAGCA GTTAATAAAA  
 3610 3620 3630 3640 3650 3660

43

Fig 22

3670 3680 3690 3700 3710 3720  
 GTAGATAAAT TAGTCAGTGC TCGAATCAGG AAAGTACTAT TTTTAGATGG AATAGATAAG  
 3730 3740 3750 3760 3770 3780  
 GCCCAAGATG AACATGAGAA ATATCACACT AATTGCAGAG CAATGGCTAG TGATTTTAAC  
 3790 3800 3810 3820 3830 3840  
 CTGCCACCTG TAGTAGCAAA AGAAATAGTA GCCAGCTGTG ATAAATGTCA GCTAAAAGGA  
 3850 3860 3870 3880 3890 3900  
 GAAGCCATGC ATGGACAAGT AGACTGTAGT CCAGGAATAT GGCAACTAGA TTGTACACAT  
 3910 3920 3930 3940 3950 3960  
 TTAGAAGGAA AAGTTATCCT GGTAGCAGTT CATGTAGCCA GTGGATATAT AGAAGCAQAA  
 3970 3980 3990 4000 4010 4020  
 GTTATTCCAG CAGAAACAGG GCAGGAAACA GCATACITTC TTTTAAATTT AGCAGGAAGA  
 4030 4040 4050 4060 4070 4080  
 TGGCCAGTAA AAACAATACA TACAGACAAT GGCAGCAATT TCACCAGTAC TACGGTTAAG  
 4090 4100 4110 4120 4130 4140  
 GCCGCCTGTT GGTGGGCGGG AATCAAGCAG GAATTTGGAA TTCCCTACAA TCCCCAAAGT  
 4150 4160 4170 4180 4190 4200  
 CAAGGAGTAG TAGAATCTAT GAATAAAGAA TTAAGAAAAA TTATAGGCCA GGTAAAGAGAT  
 4210 4220 4230 4240 4250 4260  
 CAGGCTGAAC ATCTTAAGAC AGCAGTACAA ATGGCAGTAT TCATCCACAA TTTTAAAGA  
 4270 4280 4290 4300 4310 4320  
 AAAGGGGGGA TTGGGGGGTA CAGTGCAGGG GAAAGAATAG TAGACATAAT AGCAACAGAC  
 4330 4340 4350 4360 4370 4380  
 ATAÇAACTA AAGAATTACA AAAACAAATT ACAAAAATTC AAAATTTTCG GGTTTATTAC  
 4390 4400 4410 4420 4430 4440  
 AGGGACAGCA GAGATCCACT TTGGAAGGA CCAGCAAAGC TCCTCTGGAA AGGTGAAGGG  
 4450 4460 4470 4480 4490 4500  
 GCAGTAGTAA TACAAGATAA TAGTGACATA AAAGTAGTGC CAAGAAGAAA AGCAAAGATC  
 4510 4520 4530 4540 4550 4560  
 ATTAGGGATT ATGGAAAACA GATGGCAGGT GATGATTCTG TGGCAAGTAG ACAGGATGAG  
 4570 4580 4590 4600 4610 4620  
 GATTAGAACA TGGAAAAGTT TAGTAAACA CCATATGTAT GTTTCAGGGA AAGCTAGGGG  
 4630 4640 4650 4660 4670 4680  
 ATGGTTTAT AGACATCACT ATCAAAGCCC TCATCCAAGA ATAAGTTCAG AAGTACACAT  
 4690 4700 4710 4720 4730 4740  
 CCCACTAGGG GATGCTAGAT TGGTAATAAC AACATATTGG GGTCTGCATA CAGGAGAAAG  
 4750 4760 4770 4780 4790 4800  
 AGACTGGCAT CTGGGTCAGG GAGTCTCCAT AGAATGGAGG AAAAAGAGAT ATAGCACACA  
 4810 4820 4830 4840 4850 4860  
 AGTAGACCCT GAACTAGCAG ACCAACTAAT TCATCTGTAT TACTTTGACT GTTTTTCAGA  
 4870 4880 4890 4900 4910 4920

44

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Fig 23

CTCTCTATA AGAAAGCCCT TATTAGGACA TATAGTTAGC CCTAGGTGTG AATATCAAGC

4930 4940 4950 4960 4970 4980  
 AGGACATAAC AAGGTAGGAT CTCTACAATA CTTGGCACTA GCAGCATTAA TAACACCAAA

4990 5000 5010 5020 5030 5040  
 AAAGATAAAG CCACCTTTGC CTAGTGTAC GAAACTGACA GAGGATAGAT GGAACAAGCC

5050 5060 5070 5080 5090 5100  
 CCAGAAGACC AAGGGCCACA GAGGGAGCCA CACAATCAAT GGACACTAGA GCTTTTAGAG

5110 5120 5130 5140 5150 5160  
 GAGCTTAAGA ATGAAGCTGT TAGACATTTT CCTAGGATTT GGCTCCATGG CTTAGGGCAA

5170 5180 5190 5200 5210 5220  
 CATATCTATG AAACCTTATGG CGATACTTGG GCAGGAGTGG AAGCCATAAT AAGAATTCTG

5230 5240 5250 5260 5270 5280  
 CAACAACCTGC TGTTTATCCA TTTCAGAAAT GGGTGTGCGAC ATAGCAGAAT AGGCGTTACT

5290 5300 5310 5320 5330 5340  
 CAACAGAGGA GAGCAAGAAA TGGAGCCAGT AGATCCTAGA CTAGAGCCCT GGAAGCATCC

5350 5360 5370 5380 5390 5400  
 AGGAAGTCAG CCTAAACTG CTTGTACCAC TTGCTATTGT AAAAACTGTT GCTTTCATTG

5410 5420 5430 5440 5450 5460  
 CCAAGTTTGT TTCACAACAA AAGCCTTAGG CATCTCCTAT GGCAGGAAGA AGCGGAGACA

5470 5480 5490 5500 5510 5520  
 GCGACGAAGA CCTCCTCAAG GCAGTCAGAC TCATCAAGTT TCTCTATCAA AGCAGTAAGT

5530 5540 5550 5560 5570 5580  
 AGTACATGTA ATGCAACCTA TACAAATAGC AATAGCAGCA TTAGTAGTAG CAATAATAAT

5590 5600 5610 5620 5630 5640  
 AGCAATAGTT GTGTGGTCCA TAGTAATCAT AGAATATAGG AAAATATTAA GACAAAGAAA

5650 5660 5670 5680 5690 5700  
 AATAGACAGG TTAATTGATA GACTAATAGA AAGAGCAGAA GACAGTGGCA ATGAGAGTGA

5710 5720 5730 5740 5750 5760  
 AGGAGAAATA TCAGCACTTG TGGAGATGGG GGTGGAAATG GGGCACCATG CTCCTTGGGA

5770 5780 5790 5800 5810 5820  
 TATTGATGAT CTGTAGTGCT ACAGAAAAAT TGTGGGTGAC AGTCTATTAT GGGGTACCTG

5830 5840 5850 5860 5870 5880  
 TGTGGAAGGA AGCAACCACC ACTCTATTTT GTGCATCAGA TGCTAAAGCA TATGATACAG

5890 5900 5910 5920 5930 5940  
 AGGTACATAA TGTTTGGGCC ACACATGCCT GTGTACCCAC AGACCCCAAC CCACAAGAAG

5950 5960 5970 5980 5990 6000  
 TAGTATTGGT AATGTGACA GAAAATTTTA ACATGTGGAA AAATGACATG GTAGAACAGA

6010 6020 6030 6040 6050 6060  
 TGCATGAGGA TATAATCAGT TTATGGGATC AAAGCCTAAA GCCATGTGTA AAATTAACCC

6070 6080 6090 6100 6110 6120  
 CACTCTGTGT TAGTTTAAAG TGCACCTGATT TCGGGAATGC TACTAATACC AATAGTAGTA

6130 6140 6150 6160 6170 6180

45

7924

ATACCAATAG TAGTAGCGGG GAAATGATGA TGGAGAAAGG AGAGATAAAA AACTGCTCTT  
6170 6200 6210 6220 6230 6240  
TCAATATCAG CACAAGCATA AGAGGTAAGG TCCAGAAAGA ATATGCATTT TTTTATAAAC  
6250 6260 6270 6280 6290 6300  
TTGATATAAT ACCAATAGAT AATGATACTA CCAGCTATAC GTTGACAAGT TGTAACACCT  
6310 6320 6330 6340 6350 6360  
CAGTCATTAC ACAGGCCTGT CCAAAGGTAT CCTTTGAGCC AATTCCCATTA CATTATTGTG  
6370 6380 6390 6400 6410 6420  
CCCCGGCTGG TTTTGCGATT CTAAAATGTA ATAAATAAGAC GTTCAATGGA ACAGGACCAT  
6430 6440 6450 6460 6470 6480  
GTACAAATGT CAGCACAGTA CAATGTACAC ATGGAATTAG GCCAGTAGTA TCAACTCAAC  
6490 6500 6510 6520 6530 6540  
TGCTGTTGAA TGGCAGTCTA GCAGAAGAAG AGGTAGTAAT TAGATCTGCC AATTTACACG  
6550 6560 6570 6580 6590 6600  
ACAATGCTAA AACCATAATA GTACAGCTGA ACCAATCTGT AGAAATTAAT TGTACAAGAC  
6610 6620 6630 6640 6650 6660  
CCAACAACAA TACAAGAAAA AGTATCCGTA TCCAGAGGGG ACCAGGGAGA GCATTTGTTA  
6670 6680 6690 6700 6710 6720  
CAATAGGAAA AATAGGAAAT ATGAGACAAG CACATTGTAA CATTAGTAGA GCAAAATGGA  
6730 6740 6750 6760 6770 6780  
ATGCCACTTT AAAACAGATA GCTAGCAAAAT TAACAGAACA ATTTGGAAAT AATAAAACAA  
6790 6800 6810 6820 6830 6840  
TAATCTTTAA GCAATCCTCA GGAGGGGACC CAGAAATTCT AACGCACAGT TTTAATTGTG  
6850 6860 6870 6880 6890 6900  
GAGGGGAATT TTTCTACTCT AATTCAACAC AACTGTTTAA TAGTACTTGG TTTAATAGTA  
6910 6920 6930 6940 6950 6960  
CTTGGAGTAC TGAAGGCTCA AATAACACTG AAGGAAGTCA CACAATCACA CTCCCATGCA  
6970 6980 6990 7000 7010 7020  
GAATAAAACA ATTTATAAAC ATGTGGCAGG AAGTAGGAAA AGCAATGTAT GCCCCTCCCA  
7030 7040 7050 7060 7070 7080  
TCAGCGGACA AATTAGATGT TCATCAAATA TTACAGGGCT GCTATTAACA AGAGATCGTG  
7090 7100 7110 7120 7130 7140  
GTAATAACAA CAATGGGTCC GAGATCTTCA GACCTGGAGG AGGAGATATG AGGGACAATT  
7150 7160 7170 7180 7190 7200  
GGAGAAGTGA ATTATATAAA TATAAAGTAG TAAAAATTGA ACCATTAGGA GTAGCACCCA  
7210 7220 7230 7240 7250 7260  
CCAAGGCAAA GAGAAGAGTG GTGCAGAGAC AAAAAAGAGC ACTGGGAATA GGAGCTTTGT  
7270 7280 7290 7300 7310 7320  
TCCTTGGGTT CTTGGGAGCA GCAGGAAGCA CTATGGGCCC ACGGTCAATG ACGCTGACGG  
7330 7340 7350 7360 7370 7380  
TACAGGCCAG ACAATTATTG TCTGGTATAG TGCAGCAGCA GAACAATTG CTGAGGGCTA  
7390 7400 7410 7420 7430 7440

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TTGAGGCGCA ACAUCATCTG TTGCAACTCA CAGTCTGGGG CATCAAGCAG CTCAGGCCAA

7450 7460 7470 7480 7490 7500  
GAATCCTGGC TGTGGAAGA TACCTAAAGG ATCAACAGCT CCTGGGGATT TGGGGTTGCT

7510 7520 7530 7540 7550 7560  
CTGGAAACT CATTTGCACC ACTGCTGTGC CTTGGAATGC TAGTTGGAGT AATAAATCTC

7570 7580 7590 7600 7610 7620  
TGGAACAGAT TTGGAATAAC ATGACCTGGA TGGAGTGGGA CAGAGAAATT AACAATTACA

7630 7640 7650 7660 7670 7680  
CAAGCTTAAT ACATTCCTTA ATTGAAGAAT CGCAAAACCA GCAAGAAAAG AATGAACAAG

7690 7700 7710 7720 7730 7740  
AATTATTGGA ATTAGATAAA TGGGCAAGTT TGTGGAATG GTTTAACATA ACAAATTGGC

7750 7760 7770 7780 7790 7800  
TGTGGTATAT AAAAATATTC ATAATCATAG TAGGAGGCTT GGTAGGTTTA AGAATAGTTT

7810 7820 7830 7840 7850 7860  
TTCCTGTACT TTCTATAGTG AATAGAGTTA GGCAGGGATA TTCACCATT ACGTTTCAGA

7870 7880 7890 7900 7910 7920  
CCCACCTCCC AACCCCGAGG GGACCCGACA GGCCCGAAGG AATAGAAGAA GAAGGTGGAG

7930 7940 7950 7960 7970 7980  
AGAGAGACAG AGACAGATCC ATTCGATTAG TGAACGGATC CTTAGCACTT ATCTGGGAGG

7990 8000 8010 8020 8030 8040  
ATCTGGGAG CCTTGTGCTT CTTAGCTAC CACCGCTTGA GAGACTTACT CTTGATTGTA

8050 8060 8070 8080 8090 8100  
ACGAGGATTG TGGAACTTCT GGGACCGAGG GGCTGGGAAG CCCTCAAATA TTGGTGGAA

8110 8120 8130 8140 8150 8160  
CTCCTACAGT ATTGGAGTCA GGAACATAAG AATAGTGTG TTAGCTTGCT CAATGCCACA

8170 8180 8190 8200 8210 8220  
GCCATAGCAG TAGCTGAGGG GACAGATAGG GTTATAGAAG TAGTACAAGG AGCTTGTAGA

8230 8240 8250 8260 8270 8280  
GCTATTGCCC ACATACCTAG AAGAATAAGA CAGGGCTTGG AAAGGATTTT GCTATAAGAT

8290 8300 8310 8320 8330 8340  
GGGTGGCAAG TGGTCAAAAA GTAGTGTGCT TGGATGGCTT ACTGTAAGGG AAAGAATGAG

8350 8360 8370 8380 8390 8400  
ACGAGCTGAG CCAGCAGCAG ATGGGGTGGG AGCAGCATCT CGAGACCTGG AAAAACATGG

8410 8420 8430 8440 8450 8460  
AGCAATCACA AGTAGCAATA CAGCAGCTAC CAATGCTGCT TGTGCCTGGC TAGAAGCACA

8470 8480 8490 8500 8510 8520  
AGAGGAGGAG GAGGTGGGTT TTCCAGTCAC ACCTCAGGTA CCTTTAAGAC CAATGACTTA

8530 8540 8550 8560 8570 8580  
CAAGGCAGCT GTAGATCTTA GCCACTTTTT AAAAGAAAAG GGGGGACTGG AAGGGCTAAT

8590 8600 8610 8620 8630 8640  
TCACTCCCAA CGAAGACAAG ATATCCTTGA TCTGTGGATC TACCACACAC AAGGCTACTT

8650 8660 8670 8680 8690 8700

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CCCTGATTGG CAGAACTACA CACCAGGGCC AGCGGTCAQA TATCCACTGA CCTTTGGATG  
8710 8720 8730 8740 8750 8760  
GTGCTACAAG CTAGTACCAG TTGAGCCAGA TAAGGTAGAA GAGGCCAATA AAGGAGAGAA  
8770 8780 8790 8800 8810 8820  
CACCAGCTTG TTACACCCTG TGAGCCTGCA TGGAAATGGAT GACCCTGAGA GAGAAGTGTT  
8830 8840 8850 8860 8870 8880  
AGACTGGAGG TTTGACAGCC GCCTAGCATT TCATCACGTG CCCCAGAGCC TGCATCCGGA  
8890 8900 8910 8920 8930 8940  
GTACTTCAAG AACTGCTGAC ATCGAGCTTG CTACAAGGGA CTTTCCGCTG GGCACITTCC  
8950 8960 8970 8980 8990 9000  
AGGAGGGCGT GGCCTGGGCG GAACTGGGGA GTGGCGAGCC CTCAGATGCT GCATATAAGC  
9010 9020 9030 9040 9050 9060  
AGCTGCTTTT TGCCTGTACT GGGTCTCTCT GGTTAGACCA GATTTGAGCC TGGGAGCTCT  
9070 9080 9090 9100 0 0  
CTGGCTAACT AGGGAACCCA CTGCTTAAGC CTCAATAAAG CTT

Fig 26

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